

ABSTRACT OF THE DISCLOSURE

A fluid delivery system for delivery of an injection fluid to a patient generally includes a first pump system, a second pump system, a patient interface in removable fluid connection with the first and second pump systems, and a fluid path in fluid connection between the first and second pump systems and the patient interface. The fluid path preferably includes a housing member defining a first inlet, a second inlet and an outlet. The first and second pump systems are placed in fluid connection with the respective first and second inlets of the housing member and the patient interface is placed in removable fluid connection with the outlet of the housing member. A first check valve is in fluid connection between an outlet of the first pump system and the first inlet of the housing member, and a second check valve is in fluid connection between an outlet of the second pump system and the second inlet of the housing member.